4ipnet®

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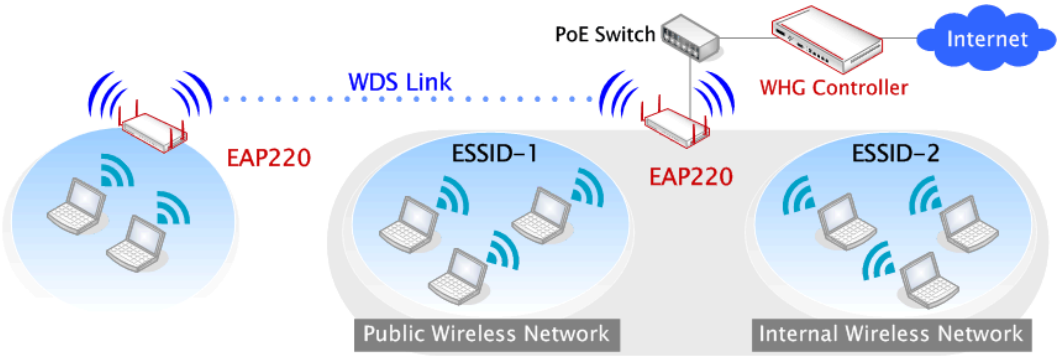
Enterprise Access Point EAP220

Embedded with 802.11n/a/b/g concurrent dual-band MIMO radios in IP50 dust-proof metal housing, the high speed (up to 300Mbps per radio) and durable **4ipnet EAP220 Concurrent Dual-band Enterprise Access Point** is designed for wireless connectivity in all types of environments, ranging from enterprise to industrial. EAP220 supports Tunnel-based AP Management, and comes with all standards demanded by enterprise applications, including business-grade security (802.1X, WPA and WPA2), and multiple ESSIDs with VLAN tags to separate the traffic of different departments. However, the EAP220's real surprise is its patent-pending **4ipWES (Press-n-Connect)** technology. Multiple EAP220s can be bridged together at the touch of a button with **4ipWES**, which enables a quick and automatic WDS link setup by pressing the WES button on EAP220. Extending wireless network coverage is a breeze.

Supporting up to 300Mbps wireless speed with its 802.11n 2x2 MIMO solution, and a gigabit Ethernet interface, EAP220 is perfect for bandwidth-hungry applications such as video surveillance, multi-media streaming over wireless. With concurrent dual band radios EAP220 is ideal for servicing high density wireless clients on 2.4GHz and 5GHz frequencies at the same time.

EAP220's higher throughput, security and durability make it a perfect choice of wireless connectivity for your business.



FEATURES & BENEFITS

Dual-band 2.4GHz & 5GHz Field Replaceable Antenna

- Antenna diversity enhances connection reliability and improves data transmission performance
- Four detachable and replaceable antennas provide optimal wireless coverage and meets customer deployment demands
- High-speed IEEE 802.11n/a/b/g wireless network interfaces by 2 x 2 MIMO, each providing transmission rates up to 300Mbps

IGMP Snooping

- Minimizes unnecessary multicast or broadcast messages being transmitted over the air
- A perfect solution to wireless environments with a high density of users

Ethernet LAN Port Mapping

- Tag Ethernet LAN traffic with various VLAN IDs in order to direct traffic to different virtual network zones (Service Zones)
- Reduces the number of layer 2 switches needed

WDS for Extending Wireless Coverage

- Create WDS (bridge) links connecting to other WDS-capable APs to form point-to-point or point-to-multipoint topologies
- WDS links can serve as LAN connections to replace Ethernet ports, or simply bridge the wired and wireless side into a single network

Supporting QoS & 802.11e WMM

- Supports IEEE 802.1p/IEEE 802.1Q Quality of Service (QoS) tagging features
- Supports IEEE 802.11e Wireless Multi-Media to fulfill bandwidth thirsty triple-play (voice, audio and video) applications

Business-class WLAN Security & Client Authentication

- Advanced security options: 64/128/152 bits WEP, WPA/WPA2 with IEEE 802.1X or PSK (Pre-Shared Key)
- 4ipWES (Press-n-Connect) with push button enables quick/auto WDS link over 5GHz band
- Ability to filter out unauthorized wireless clients with built-in MAC access control list or via back-end RADIUS server authentication

Multiple Virtual APs & Capability of Client Isolation

- Create up to 8 Virtual APs (VAP), each with its own ESSID; that is, one AP can have up to 8 ESSIDs
- Each VAP appears to clients as an independent AP and its traffic can be associated with a particular VLAN ID
- Wireless LAN segmentation, Disable SSID Broadcast, and the option of Station Isolation

Wall mountable Dust-proof Metal Housing

- Enclosed in an IP50 metal chassis, durable and non-fire hazard for the industrial environment

Gigabit Ethernet port with PoE

- The IEEE 802.3af Power over Ethernet (PoE) compliant design eliminates the need for power sockets, allows installation of this device in areas where power outlets are not readily available, and provides standard based compatibility with other device
- Provides 10/100/1000 Gigabit Ethernet ports for high throughput applications

Tunneled AP Management

- EAP220 can be physically deployed at any location with connection to the Internet. Its can then be managed by a remote 4ipnet Secure WLAN Controller, incorporating it into the controller's internal network via secure tunnels
- With Tunneled AP Management, wireless clients associated to EAP220 can enjoy the network service provided by a remote 4ipnet Secure WLAN Controller

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SPECIFICATIONS

Wireless Radio

- Wireless Interface: IEEE 802.11 n/a/b/g Concurrent Dual-band Radios operating in 2.4 GHz and 5 GHz frequencies
- Wireless architecture:
  (1) AP mode
  (2) WDS mode (Repeater / Bridge)
- Modulation:
  (1) OFDM (64-QAM, 16-QAM, QPSK, BPSK)
  (2) DSSS (CCK, DBPSK, DQPSK)
- Channels:
  (1) USA: 1~11, 36, 40, 44, 48, 52~64, 100~136, 149~161
  (2) Japan: 1~14, 36, 40, 44, 48, 52~64, 100~136
  (3) Europe: 1~14, 36, 40, 44, 48, 52~64, 100~136
- Data rate with auto fallback:
  (1) 802.11a: 6 ~ 54 Mbps
  (2) 802.11b: 1 ~ 11 Mbps
  (3) 802.11g: 6 ~ 54 Mbps
  (4) 802.11n: 6.5 ~ 300Mbps
- Transmit Power (E.I.R.P.):
  (1) 802.11a: 21dBm@54Mbps ±2dB
  (2) 802.11b: 24dBm@11Mbps ±2dB
  (3) 802.11g: 21dBm@54Mbps ±2dB
  (4) 802.11n 5G HT20 & HT40: 20dBm@MCS7 ±2dB
  (5) 802.11n 2.4G HT20 & HT40: 21dBm@MCS7 ±2dB
- Receiver Sensitivity:
  (1) 802.11a: -70dBm@54Mbps ±2dB
  (2) 802.11b: -85dBm@11Mbps ±2dB
  (3) 802.11g: -70dBm@54Mbps ±2dB
  (4) 802.11n 5G HT20: -65dBm@MCS7
  (5) 802.11n 5G HT40: -62dBm@MCS7
  (6) 802.11n 2.4G HT20: -65dBm@MCS7
  (7) 802.11n 2.4G HT40: -62dBm@MCS7
- Antenna: 4 x Dual-band (2.4GHz & 5GHz) in SMA Connector

QoS-WMM

- DiffServ/TOS
- IEEE 802.1p/COS
- IEEE 802.1Q Tag VLAN priority control
- IEEE 802.11e WMM

Handover & Roaming

- IEEE 802.11i pre-auth (PMKSA cache)

Security

- WEP (64/128/152 bits)
- EAP-TLS + Dynamic WEP
- EAP-TTLS + Dynamic WEP
- PEAP/MS-PEAP + Dynamic WEP
- WPA (PSK + TKIP)
- WPA (802.1X certification + TKIP)
- 802.11i WPA2 (PSK + CCMP/AES)
- 802.11i WPA2 (802.1X certification + CCMP/AES)
- Setting for TKIP/CCMP/AES key's refreshing period
- Hidden ESSID support
- MAC Address filtering (MAC ACL)
- MAC authentication with RADIUS servers
- Maximum number of registered RADIUS servers: 2

System Management

- Web-based administration
- SNMP v1/v2c
- Provides Event Log
- SYSLOG information support
- Statistics
- Configuration backup and restore
- Factory default setting restore
- Firmware upgrade
- Capable of performing RADIUS Accounting and Accounting Update
- 4ipWES (Press-n-Connect) button for WDS Easy Setup
- Support Tunneled AP Management with 4ipnet Secure WLAN Controllers
- Support CAPWAP AP management
- Support IPv6
- Ethernet LAN Port Mapping (with a 4ipnet controller)
- IGMP Snooping
- Proxy ARP

Built-in Servers & Client Interfaces to Other Services

- DHCP client
- DNS client
- SYSLOG client
- RADIUS client
- SNMP v1/v2c client

Wireless Signal Management

- Number of ESSIDs (Virtual APs): 2 x 8
- Number of associated clients: 2 x 128
- Setting for maximum number of associated clients
- Network policy based on ESSID

Hardware Specifications

- IP50 Dust proof metal case
- Uplink Port: 1 × 10/100/1000 Base-T Ethernet with IEEE 802.3at PoE
- LAN Port: 4 × 10/100/1000 Base-T Ethernet
- Push buttons: 1 x Reset, 1 x WES
- Console Port: 1 x DB9M
- LED Indicators: 1 x Power, 1 x Status, 2 x WLAN, 1 x WES
- Kensington Lock

Physical and Power

- Power Adapter
  (1) AC Input: 100~240 VAC, 50~60 Hz
  (2) DC Output: 12V / 2A
- Alternative Power:
  (1) 802.3at PoE (PSE not included)
- Form Factor: Wall mountable mini-book
- Dimensions (W x D x H): 8.6" x 5" x 1.7"
  (218 mm x 127 mm x 45 mm)
- Weight: 0.82 kg (1.8 lbs)

Environment

- Operation Temperature: 0 ~ + 50 °C (-32~122°F)
- Storage Temperature: 0 ~ + 60 °C (-32~140°F)
- Operation Humidity: 10% ~ 90% (Non-condensing)
- Storage Humidity: 5% ~ 90% (Non-condensing)

Certifications

- FCC, CE
- RoHS compliant

Package Contents

- 4ipnet EAP220 x 1
- CD-ROM (User's Manual and QIG) x 1
- Quick Installation Guide (QIG) x 1
- Power Adapter (DC 12V) x 1
- Detachable Dual-Band Antenna x 4
- Console Cable x 1
- Ethernet Cable x 1

** Specifications subject to change without notice

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